Name:		0
Date:	Period: 7	2

## I. Adding and Subtracting with Radicals

Use the same concept as that of adding or subtracting Like variables.

\*In other words, the radicals must be the before you

combine C+/them.

Examples:	Add:	$2\sqrt{3} + 5\sqrt{3}$	Since the radicals are the same, simply add the numbers in
			front of the radicals (do NOT add the numbers under the radicals).
921			
			Answer: $7\sqrt{3}$
			Since the radicals are not the same, and both are in their
	Add:	$4\sqrt{5}+3\sqrt{7}$	simplest form, there is no way to combine these values. The
			answer is the same as the problem.
			Answer: $4\sqrt{5} + 3\sqrt{7}$
			12137761
			Warning: If the radicals in your problem are different,
			be sure to check to see if the radicals can be simplified.
			Often times, when the radicals are simplified, they become
			the same radical and can then be added or subtracted.
			Always simplify, if possible, before deciding upon your
		v.	answer.
		**************************************	EX: 5/5+ 3/18 - 5/5+ 1/5 = 11/4
			124
3.3			

## NOW YOU PRACTICE:

Simplify the following expressions:

1) 
$$2\sqrt{7} + 4\sqrt{7} = 6\sqrt{7}$$

2) 
$$12\sqrt{6} - 7\sqrt{6} = 5\sqrt{6}$$

3) 
$$3\sqrt{12} + 7\sqrt{3} = 6\sqrt{3} + 7\sqrt{3} = 13\sqrt{3}$$



5) 
$$3\sqrt{20} - \sqrt{32}$$
 LVS - 4VE

6) 
$$8\sqrt{2} + 2\sqrt{8} - 4\sqrt{4} = 8\sqrt{2} + 4\sqrt{2} - 8$$





